

Notice of Allowability

Application No.

09/628,824

Examiner

Aravind K Moorthy

Applicant(s)

TAKAI, KAZUHITO

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04 March 2005.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☒ The drawings filed on 09 June 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


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DETAILED ACTION

1. This is in response to the amendment filed on 4 March 2005.
2. Claims 1-22 are pending in the application.
3. Claims 1-22 have been allowed.

Response to Arguments

4. Applicant's arguments, see pages 11-20, filed 4 March 2005, with respect to claims 1-19 have been fully considered and are persuasive. The rejection of claims 1-19 has been withdrawn.

Allowable Subject Matter

5. Claims 1-22 are allowed.

The following is an examiner's statement of reasons for allowance.

As to independent claims 1, 10 and 12, prior art teaches an embedding circuit for embedding a digital watermark in a digital video stream to produce a watermarked digital video stream, as taught by Hirai U.S. Patent No. 6,850,619 B1. Prior art teaches a digital watermark detector for detecting the digital watermark embedded in the recovered digital video stream, as taught by Hirai U.S. Patent No. 6,850,619 B1.


However, prior art does not disclose, teach or fairly suggest a multiplexer for multiplexing a text data stream with the watermarked digital video stream to produce a multiplexed signal. Prior art does not disclose, teach or fairly suggest a demultiplexer for demultiplexing the multiplexed signal for recovering the watermarked digital video stream and the text data stream. Prior art does not disclose, teach or fairly suggest a synchronizer for synchronizing the recovered text data stream to the recovered digital video stream in response to

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the detection of the digital watermark. Prior art does not disclose, teach or fairly suggest using the detected digital watermark as a timing signal for reading the data from the storage medium

The closest prior art to the current application was Tsukagoshi U.S. Patent No. 5,742,352. The current application differs from Tsukagoshi U.S. Patent No. 5,742,352 in that Tsukagoshi teaches that textual captions are superimposed on the display screen along with movie imagery. In video disc players, ordinary television broadcasts, and the like, a video signal is transmitted with textual or graphic captions superimposed on a video image in advance. Tsukagoshi does not teach that a watermark was embedded in the digital video stream to produce a watermarked digital video stream. Tsukagoshi does not teach that the textual data is multiplexed with the watermarked digital video stream to produce a multiplexed signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aravind K Moorthy whose telephone number is 571-272-3793. The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aravind K Moorthy 
March 14, 2005